GROWER-PROCESSOR · SIKANDRABAD, BULANDSHAHR, UTTAR PRADESH

Farm & Agronomy profile

Where the raw material comes from, and how it is controlled.

AT A GLANCE

517
contract farmers

1,250 acres
under Sunshine: own, leased and contracted land

~5,000 acres
the Sikandrabad cluster, the largest English carrot cluster in India

~100,000 MT
a year across the cluster

45,000 MT
of carrots a year, grown and procured

20,000 MT
owned carrot cold storage, 0–2 °C, >95 % RH

200+
varieties trialled since the early 2000s

90 %
mechanised cultivation cycle

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01 Where we grow

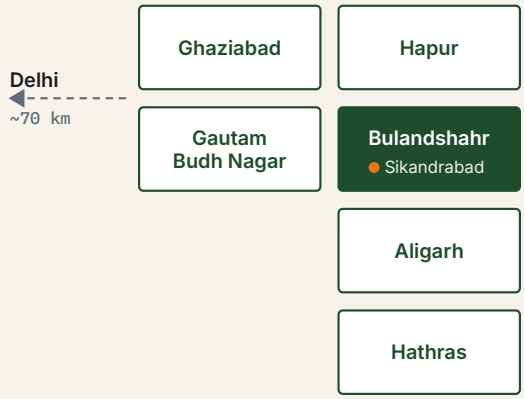
Sikandrabad, Bulandshahr district, western Uttar Pradesh, ~70 km from Delhi; sandy-loam soils; the cluster spans Bulandshahr, Hapur, Ghaziabad, Gautam Budh Nagar, Hathras and Aligarh; the largest English carrot cluster in India (~5,000 acres, ~100,000 MT a year).

517 · 1,250 · ~5,000

517 contract farmers · 1,250 acres under Sunshine · ~5,000-acre cluster

The Sikandrabad cluster →
sunshinevegetables.com/farm/sikandrabad-cluster/

THE SIX DISTRICTS



Schematic of the six districts in the cluster, not to scale.

02 Seed & varieties

Nantes-type English carrot; more than 200 varieties trialled since the early 2000s for shelf life, low foliage disease pressure and yield; imported hybrid seed from a European seed house; variety trials continue every season.

200+

varieties trialled

Seed & varieties →
sunshinevegetables.com/farm/seed-and-varieties/

VARIETIES ARE TRIALLED FOR

01 Shelf life

02 Low foliage disease pressure

03 Yield

03 Good Agricultural Practices

- Laser land levelling
- Raised-bed sowing
- Precision pneumatic seed drill (seed rate cut from 3 kg to 700 g per acre)
- Calcium programme for root strength
- Scientifically timed fertiliser and crop-protection applications per a standardised package of practices in place since 2014, designed to meet Maximum Residue Level requirements
- SOPs for land preparation, sowing, weeding, irrigation and harvest, with farmer training

SOPS, WITH FARMER TRAINING

- Land preparation
- Sowing
- Weeding
- Irrigation
- Harvest

90 %

mechanised cultivation cycle

Good Agricultural Practices & MRL programme →
sunshinevegetables.com/farm/good-agricultural-practices/

04 Crop protection & MRL programme

Scientifically recommended doses, timing and process for fertiliser and crop protection under the standardised package of practices since 2014, with SOPs and farmer training; an approved-input list issued to every contract farmer; pre-harvest intervals controlled plot by plot; spray records held per plot.

MRL & residue testing →
sunshinevegetables.com/quality/mrl-and-residue-testing/

THE PROGRAMME, PLOT BY PLOT

01	02	03
Approved-input list	**Pre-harvest intervals**	**Spray records**
issued to every contract farmer	controlled plot by plot	held per plot

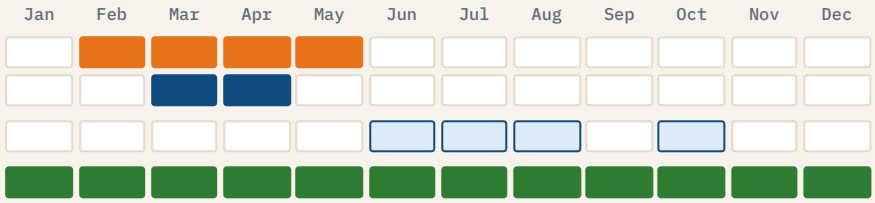
05 Harvest scheduling

Early-morning and evening harvest to prevent field dehydration; mechanised harvester (100 t/day) reduces the harvest window and labour by 3×. Harvest February–May.

Harvest & cold storage →
sunshinevegetables.com/farm/harvest-and-cold-storage/

Feb–May
Harvest window: Feb–May

THE CARROT YEAR



Harvest Feb–May. IQF diced carrot runs Mar–Apr on field-fresh roots and Jun–Aug and Oct on roots held at 0–2 °C, > 95 % RH; no runs Nov–Feb, May or Sep. Shipped from frozen stock year-round.

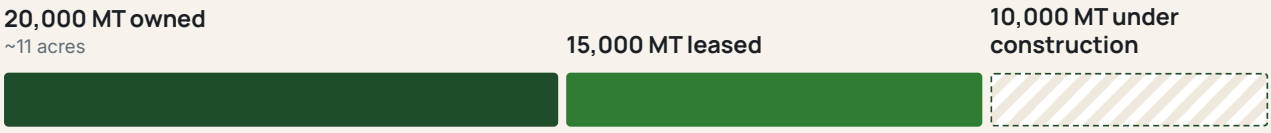
06 Cold storage of raw material

20,000 MT owned specialised carrot cold storage (0–2 °C, >95 % RH) on ~11 acres, plus 15,000 MT leased; ~90 % of the crop stored and released over a ten-month cycle; carrots available 11 months a year; a further 10,000 MT specialised cold store is under construction.

Availability calendar →
sunshinevegetables.com/products/availability-calendar/

20,000 MT
20,000 MT owned · 0–2 °C · >95 % RH · available 11 months

RAW-MATERIAL COLD STORAGE



07 Contract farming model

Three farming models; farmer income ~2.5× traditional crops; “trust-based contract farming”.

Contract farming model →
sunshinevegetables.com/farm/contract-farming-model/

~2.5×
farmer income against traditional crops

01
Direct lease farming
Direct lease farming by Sunshine.

02
Zero-investment contract farming
Inputs and interest-free credit, pre-agreed price, 100 % buyback; Sunshine carries crop and price risk.

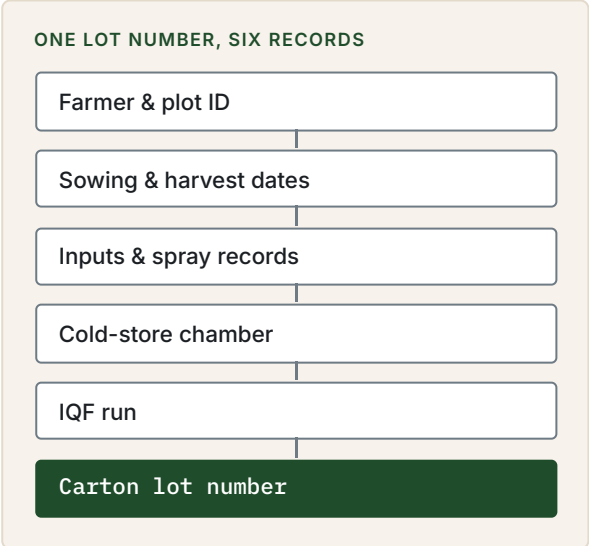
03
Farmer-engagement model
Finances high-performing farmers to lease more land.

517 farmers · zero-investment inputs · 100 % buyback

08 Plot-to-factory-gate traceability

Every lot number resolves, in Sunshine’s in-house software, to the farmer and plot ID, the sowing and harvest dates, the plot’s inputs and spray records, the cold-store chamber and the IQF run; consumer-facing QR traceability planned.

One lot number, six records →
sunshinevegetables.com/quality/traceability/



09 Zero-waste stream

Foliage and top-and-tail to dairy and piggery feed; processing-grade roots to IQF; remainder to pulping; nothing dumped.

Zero waste

Every part of the crop has a buyer

WHERE EVERY PART OF THE CROP GOES

Foliage and top-and-tail	→ Dairy and piggery feed
Processing-grade roots	→ IQF
Remainder	→ Pulping

Nothing dumped.

SINCE 2002

2002 — First carrot crop

2006 — First carrot cold storage

2009 — Sunshine Vegetables Pvt. Ltd. incorporated

2014 — Standardised package of practices introduced

2024 — IQF line commissioned

10 See it for yourself

Request a quote | Book a farm visit

EXPORT DESK

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~70 km from Delhi

ONLINE

sunshinevegetables.com/farm/

Farm & Agronomy